

ABSTRACT:

A system for viewing 3-D images that comprises an image source (50), a computer (105) and a television screen (110). The television screen is divided into a plurality of sections (115-130), with each section displaying an image representative of a certain depth in the image, as provided by the computer. Image display elements comprising optical fiber bundles (200-215) or lamps, (e.g. 520) and leads (e.g. 540) convey individual depth images from the television screen to a plastic block (225) in which the fiber bundles terminate or the lamps are positioned. The individual fiber bundles terminate at predetermined depths within the plastic block, with those conveying the nearest part of an image terminating at the front of the block, as viewed by an observer (220). The fiber bundle or lamp conveying the greatest depth in the image terminates near the rear portion of the block, as seen by an observer. Fiber bundles or lamps conveying images of intermediate distances terminate at intermediate distances within the block. Fiber diameters and lamp sizes graduate from large to small as depth in the image increases. A true 3-D image is thus provided.